

**Project Subject/Title:** Natural Oak Regeneration

**County:** Barron

**TRS:** Private parcel

**Contact Person:** Chris Rucinski, 715-537-5046

**Type of Prescription:** scarification/shelterwood

**Year Initiated:** 1989

**Abstract/Prescription:**

The objective of the study was to promote/enhance oak regeneration through site preparation and harvesting techniques on private land in Barron County. A shelterwood regeneration system, followed by ground scarification, was established in 1989 on a 12 acre mature red and white oak stand (privately owned). The thinning occurred in 1989 and the over story removal in 1995. The stand was thinned from below to achieve 60% crown closure. A small dozer was used to uproot brush/maple regeneration and lightly disturb ground to about 50% of the area in the fall of 1991. The logger did both harvest and site preparation.

**Results:**

Seedling counts were conducted in 1992 and average of 2,000 seedlings/ac with very light competition. A follow up in 1993 and 1994 showed the seedling numbers consistent and seedling height increase. White ash sprout was one species that increased. Removal cut was planned in 1995.

**Discussion/Recommendations:**

- Plan the scarification in conjunction with a good seed crop
- Future TSI anticipated in 8-15 years to control composition and density.

**Site statistics:**

**Habitat Type:** AA

**Covertime:** Red Oak

**SI = 58**

**Scarification costs = \$100/ac**

**ACP/cost sharing**